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NEW CLAIMS

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- 5 1. Installation for intermediate storage of flat articles, the installation comprising stations (1) for establishing storage formations each comprising a multitude of articles, and for dissolving storage formations, mobile supporting elements (2) for storage formations and storage spaces (2.1, 2.2) for supporting elements (2) with or without storage formation as well as means for positioning and retrieving supporting elements (2) in and from stations (1) and storage spaces (2.1, 2.2) and transporting them between stations (1) and storage spaces (2.1, 2.2), characterized in that the storage spaces (2.1, 2.2) are situated on a plurality of primary transport paths (3) and entrances of the stations (1) at ends of primary transport paths (3), that at least a part of the primary transport paths (3) intersect a secondary transport path (4) and that the installation further comprises at least one actively displaceable positioning device (5) being equipped for retrieving by pulling and for positioning by pushing one supporting element (2) and for transporting the supporting element (2) along the primary transport paths and at least one actively displaceable orienting device (6, 6') being equipped for transporting one positioning device with or without supporting element (2) along the secondary transport path (4) and for re-orienting the one positioning device (5).
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- 20 2. Installation according to claim 1, characterized in that the primary transport paths (3) run parallel to one another and transverse to the at least one secondary transport path (4).

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3. Installation in accordance with one of claims 1 or 2, characterized in that the at least one positioning device (5) is an elevating truck (20) with a forklift (21).
4. Installation according to one of claims 1 to 3, characterized in that the at least one positioning device (5) is displaceable along guide means.
5. Installation in accordance with claim 4, characterized in that the guide means are rails or electrical guide lines.
6. Installation according to one of claims 1 to 5, characterized in that the at least one orienting device (6, 6') comprises means for holding the positioning device (5) and means for rotating the positioning device (5) around a vertical rotation axis (B).
7. Installation according to claim 6, characterized in that the means for rotating around a vertical axis (B) comprise a rotatable supporting frame (32) suspended from a supporting beam (30).
8. Installation according to claim 7, characterized in that the vertical axis (B) passes through the area of the centre of gravity of the positioning device (5) being carried by the orienting device (6) and being loaded with a supporting element (2) with a storage formation.
9. Installation according to one of claims 6 or 7, characterized in that the at least one orienting device (6, 6') is designed for simultaneously re-orienting and trans-

porting the one positioning device (5.1) together with a further positioning device (5.2).

5 10. Installation according to claim 9, characterized in that the vertical axis (B) is positioned between the two positioning devices (5.1, 5.2) carried by the orienting device (6').

10 11. Installation in accordance with one of claims 6 to 10, characterized in that the means for holding comprises a supporting frame (32) and a running substratum (33) arranged in the lower zone of the supporting frame (32), wherein the running substratum (33) is designed in such a manner, that the positioning device (5) is displaceable on it.

12. Installation in accordance with one of claims 6 to 11, characterized in that the at least one orienting device (6, 6') additionally comprises means for elevating or lowering the positioning device (5).

15 13. Installation according to claim 12, characterized in that the means for elevating or lowering comprises a plurality of chain hoists (40), which are synchronously driven and coupled with the supporting beam (30).

14. Installation in accordance with one of claims 1 to 13, characterized in that the orienting device (6, 6') is movable along a pair of rails (31).

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Cl 15. Installation according to claim 1, characterized in that the device additionally comprises at least one tertiary partial device (10) for transporting orienting devices (6, 6') along tertiary transport paths.

5 16. Installation in accordance with claim 15, characterized in that the at least one tertiary partial device (10) is an elevator.

10 17. Installation in accordance with one of claims 1 to 16, characterized in that the stations (1) for establishing or dissolving storage formations are arranged in the area of a first secondary transport path (4.1) and that at least one further, secondary transport path (4.2) parallel to the first secondary transport path (4.1) is provided.

18. Installation according to one of claims 1 to 17, characterized in that the storage formations are imbricated formations of flat articles wound onto roll cores (11) and that the stations (1) are winding stations.

15 19. Installation in accordance with claim 18, characterized in that the supporting elements (2) are roll stands with roll cores (11) rotatably installed on them.

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